



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/773,530

DATE: 08/30/2004

TIME: 14:57:32

Input Set : N:\Crf3\RULE60\10773530.raw.txt

Output Set: N:\CRF4\08302004\J773530.raw

1 <110> APPLICANT: Cox III, George N
 2 Bolder Biotechnology, Inc.
 3 <120> TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
 4 <130> FILE REFERENCE: 4152-1-PUS
 5 <140> CURRENT APPLICATION NUMBER: US/10/773,530
 6 <141> CURRENT FILING DATE: 2004-02-05
 7 <150> PRIOR APPLICATION NUMBER: US/10/400,377
 8 <151> PRIOR FILING DATE: 2003-03-26
 9 <150> PRIOR APPLICATION NUMBER: US/09/462,941
 10 <151> PRIOR FILING DATE: 2000-01-14
 11 <150> PRIOR APPLICATION NUMBER: 60/052,516
 12 <151> PRIOR FILING DATE: 1997-07-14
 13 <160> NUMBER OF SEQ ID NOS: 41
 14 <170> SOFTWARE: PatentIn Ver. 2.0
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 191
 18 <212> TYPE: PRT
 19 <213> ORGANISM: Homo sapiens
 20 <400> SEQUENCE: 1

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    Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn Pro
    35          40          45
    Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn Arg
    50          55          60
    Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu
    65          70          75          80
    Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg Ser Val
    85          90          95
    Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr Asp
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    Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly Arg Leu
    115         120         125
    Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser
    130         135         140
    Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn Tyr
    145         150         155          160
    Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr Phe
    165         170         175
    Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe
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46 <210> SEQ ID NO: 2
47 <211> LENGTH: 166
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53 Leu Glu Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His
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55 Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe
56 35 40 45
57 Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala Val Glu Val Trp
58 50 55 60
59 Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu
60 65 70 75 80
61 Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu Gln Leu His Val Asp
62 85 90 95
63 Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr Leu Leu Arg Ala Leu
64 100 105 110
65 Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp Ala Ala Ser Ala Ala
66 115 120 125
67 Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val
68 130 135 140
69 Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys Leu Tyr Thr Gly Glu Ala
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71 Cys Arg Thr Gly Asp Arg
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75 <211> LENGTH: 165
76 <212> TYPE: PRT
77 <213> ORGANISM: Homo sapiens
78 <400> SEQUENCE: 3
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81 Leu Leu Ala Gln Met Arg Arg Ile Ser Leu Phe Ser Cys Leu Lys Asp
82 20 25 30
83 Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln
84 35 40 45
85 Lys Ala Glu Thr Ile Pro Val Leu His Glu Met Ile Gln Gln Ile Phe
86 50 55 60
87 Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu Thr Leu
88 65 70 75 80
89 Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu Glu
90 85 90 95
91 Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Lys
92 100 105 110
93 Glu Asp Ser Ile Leu Ala Val Arg Lys Tyr Phe Gln Arg Ile Thr Leu
94 115 120 125
95 Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val Val Arg

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 97 Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser
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 104 <212> TYPE: PRT
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 109 Leu Leu Ala Gln Met Ser Arg Ile Ser Pro Ser Ser Cys Leu Met Asp
 110 20 25 30
 111 Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Asp Gly Asn Gln Phe
 112 35 40 45
 113 Gln Lys Ala Pro Ala Ile Ser Val Leu His Glu Leu Ile Gln Gln Ile
 114 50 55 60
 115 Phe Asn Leu Phe Thr Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu Asp
 116 65 70 75 80
 117 Leu Leu Asp Lys Phe Cys Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu
 118 85 90 95
 119 Glu Ala Cys Val Met Gln Glu Glu Arg Val Gly Glu Thr Pro Leu Met
 120 100 105 110
 121 Asn Ala Asp Ser Ile Leu Ala Val Lys Lys Tyr Phe Arg Arg Ile Thr
 122 115 120 125
 123 Leu Tyr Leu Thr Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val Val
 124 130 135 140
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 127 Arg Leu Arg Arg Lys Glu
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 130 <210> SEQ ID NO: 5
 131 <211> LENGTH: 166
 132 <212> TYPE: PRT
 133 <213> ORGANISM: Homo sapiens
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 136 1 5 10 15
 137 Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
 138 20 25 30
 139 Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
 140 35 40 45
 141 Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
 142 50 55 60
 143 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
 144 65 70 75 80
 145 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
 146 85 90 95

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147 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
148 100 105 110
149 Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
150 115 120 125
151 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
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155 Thr Gly Tyr Leu Arg Asn
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159 <211> LENGTH: 174
160 <212> TYPE: PRT
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162 <400> SEQUENCE: 6
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165 Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln
166 20 25 30
167 Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val
168 35 40 45
169 Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys
170 50 55 60
171 Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser
172 65 70 75 80
173 Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser
174 85 90 95
175 Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp
176 100 105 110
177 Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro
178 115 120 125
179 Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe
180 130 135 140
181 Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe
182 145 150 155 160
183 Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
184 165 170
186 <210> SEQ ID NO: 7
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188 <212> TYPE: PRT
189 <213> ORGANISM: Homo sapiens
190 <400> SEQUENCE: 7
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193 Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
194 20 25 30
195 His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu
196 35 40 45
197 Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu

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Input Set : N:\Crf3\RULE60\10773530.raw.txt
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198 50 55 60
 199 Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
 200 65 70 75 80
 201 Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
 202 85 90 95
 203 Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
 204 100 105 110
 205 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe
 206 115 120 125
 207 Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
 208 130 135 140
 209 Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala
 210 145 150 155 160
 211 Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu Pro Asn
 212 165 170 175
 213 Arg Thr Ser Gly Leu Leu Glu Thr Asn Phe Thr Ala Ser Ala Arg Thr
 214 180 185 190
 215 Thr Gly Ser Gly Leu Leu Lys Trp Gln Gln Gly Phe Arg Ala Lys Ile
 216 195 200 205
 217 Pro Gly Leu Leu Asn Gln Thr Ser Arg Ser Leu Asp Gln Ile Pro Gly
 218 210 215 220
 219 Tyr Leu Asn Arg Ile His Glu Leu Leu Asn Gly Thr Arg Gly Leu Phe
 220 225 230 235 240
 221 Pro Gly Pro Ser Arg Arg Thr Leu Gly Ala Pro Asp Ile Ser Ser Gly
 222 245 250 255
 223 Thr Ser Asp Thr Gly Ser Leu Pro Pro Asn Leu Gln Pro Gly Tyr Ser
 224 260 265 270
 225 Pro Ser Pro Thr His Pro Pro Thr Gly Gly Tyr Thr Leu Phe Pro Leu
 226 275 280 285
 227 Pro Pro Thr Leu Pro Thr Pro Val Val Gln Leu His Pro Leu Leu Pro
 228 290 295 300
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 230 305 310 315 320
 231 Ser Tyr Thr His Ser Gln Asn Leu Ser Gln Glu Gly
 232 325 330
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 236 <212> TYPE: PRT
 237 <213> ORGANISM: Homo sapiens
 238 <400> SEQUENCE: 8
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 240 1 5 10 15
 241 Asn Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp Thr
 242 20 25 30
 243 Ala Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser Glu Met Phe Asp
 244 35 40 45
 245 Leu Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys Gln
 246 50 55 60
 247 Gly Leu Arg Gly Ser Leu Thr Lys Leu Lys Gly Pro Leu Thr Met Met

VERIFICATION SUMMARY

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